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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/616,056	07/09/2003	Gab-Jin Nam	5649-1073	9528		
20792	7590 12/10/2004		EXAM	EXAMINER		
MYERS BIO	GEL SIBLEY & SAJOV	BLUM, D	BLUM, DAVID S			
PO BOX 374		ART UNIT	PAPER NUMBER			
RALEIGH, NC 27627			2813			
			DATE MAILED: 12/10/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

		·		Are			
		Application No.	Applicant(s)				
		10/616,056	NAM ET AL.				
Office Action Summary		Examiner	Art Unit				
		David S Blum	2813				
Period fo	The MAILING DATE of this communication apport	pears on the cover sheet v	vith the correspondence ac	ddress			
THE - External after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl p period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a ly within the statutory minimum of th will apply and will expire SIX (6) MC e, cause the application to become A	reply be timely filed irty (30) days will be considered time NTHS from the mailing date of this of the constant of the constan				
Status			•				
1)	Responsive to communication(s) filed on	 ·					
2a) <u></u> □							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.				
Dispositi	on of Claims						
4)⊠	Claim(s) 1-97 is/are pending in the application						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)[Claim(s) is/are allowed.						
-	Claim(s) is/are rejected.						
	Claim(s) is/are objected to.	·					
8)⊠	Claim(s) <u>1-97</u> are subject to restriction and/or	election requirement.					
Applicati	on Papers						
	The specification is objected to by the Examine						
10)	The drawing(s) filed on is/are: a)☐ acc	epted or b) objected to	by the Examiner.				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex	kaminer. Note the attache	ed Office Action or form P	ΓΟ-152.			
Priority u	under 35 U.S.C. § 119						
_	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau	s have been received. s have been received in a rity documents have been	Application No	Stage			
* S	See the attached detailed Office action for a list	. , , ,	t received.				
Attachmen							
	e of References Cited (PTO-892)		Summary (PTO-413)				
3) 🔲 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		(s)/Mail Date Informal Patent Application (PT0	O-152)			

This action is in response to the application filed 7/9/03.

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claim1-27, 63-91, and 95-97, drawn to a method of making a semiconductor device, classified in class 438, subclass 253.
 - II. Claims 27-62 and 92-94, drawn to a semiconductor device, classified in class 257, subclass 306.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the single dielectric oxide layer formed with different titanium densities could be made as two distinct oxide layers in the device claims.

- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.
- 5. Regarding Group I, claim 1 is generic to a plurality of disclosed patentably distinct species comprising the method claims (see page 3 lines 2-4 of the instant specification). Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.
- 6. Regarding Group II, claim 27 is generic to a plurality of disclosed patentably distinct species comprising the device claims (see page 3 lines 24-25 of the instant specification). Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed. The applicant is requested to specify the species (embodiment) chosen and identify the claims corresponding to the chosen species.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record

showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

7. A telephone call was made to Scott C. Hatfield on 11/30/04 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

- 8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David S. Blum whose telephone number is (571)-272-1687) and e-mail address is David.blum@USPTO.gov.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr., can be reached at (571)-272-1702. Our facsimile

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number all patent correspondence to be entered into an application is (703) 872-9306. The facsimile number for customer service is (703)-872-9317.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David S. Blum

December 6, 2004